

[Document #433-IRD-0001; baselined on January 29, 2001]

Meeting Objective(s):

1. Identify potential updates to the LAT IRD needed for LAT PDR
 - discuss potential IRD changes needed due to better requirements definition, LAT design changes, s/c study, etc.
 - removal of TBRs/TBDs; determine what is needed, responsible person, due date
 -
2. Identify any impacts to specific S/C interfaces which require further investigation

Topics for Discussion

I. 3.2 Interface Requirements and Constraints

1. 3.2.1.1 Axes Definition

Verify that the LAT will have the +X &/ or -X axis clearly marked.

2. Clarify definitions:

- a) Will there be markers to differentiate the +X from the -X axis?
- b) Rotations about the Z-axis are yaws. Other rotations are defined as slews. Specifically, a rotation around the X-axis is a roll; a rotation around the Y-axis is a pitch.

II. South Atlantic Anomaly (better suited for Spacecraft Spec)

- 1. Identify LAT notification needs from the spacecraft*

III. Mechanical:

1. Section 3.2.2.1:

1.8m dimension will need updating once the LAT footprint change (by 4 mm in x and y dimensions) is finalized.

2. Section 3.2.2.2:

- a) Figure 3-3 should be replaced with all drawing views shown on sheet 1 of the updated LAT Stay Clear Drawing, LAT-DS-00040.

3. Section 3.2.2.8.2:

Table 3-1, Design Limit Loads, will need review and possible update once the coupled loads cycle is completed in Fall of 2001.

4. Section 3.2.2.8.7:

TBD file format should be changed to '...an acceptable file format...'.

Date of February 26, 2001 (TBR) should be updated to reflect proper date for delivery of post-PDR model for use during 2nd coupled loads cycle to be performed after s/c vendor is selected.

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5. *Section 3.2.2.8.8:*
‘The LAT’s handling procedures during observatory integration and testing are TBD’, should be changed to:
‘The LAT’s handling procedures during observatory integration and testing are to be as specified in the LAT Integration and Test Plan, LAT-XX-XXXX.’
6. *Section 3.2.2.2:*
Once the ACD cable runs are established and the heat pipe routing, additional keep-out zones will have to be added to the LAT Stay Clear Drawing, LAT-DS-00040. Then Figures 3-3, 3-4 and 3-5 should be updated, as necessary.
7. *Section 3.2.2.8.5:*
Change to read: “The acoustic spectrum is given in the Delta II Payload Planners Guide for the baseline launch vehicle.
8. *Section 3.2.2.8.6:*
Change to read: “The pyroshock spectrum at the spacecraft-to-instrument interface plane shall be as provided by the spacecraft vendor. For purposes of initial design, the pyroshock spectrum given in the Delta II Payload Planners Guide for the baseline launch vehicle may be used.”
9. Add Section 3.2.2.8.9 to read as follows:
“The sinusoidal swept vibration spectrum is given by the Delta II Payload Planners Guide for the baseline launch vehicle; or by a mission specific spectrum which may be developed as a result of flight data and GLAST mission-level coupled loads analysis.”

III. Thermal

1. 3.2.3.2.3.1 Field of View

Remove “centered on each radiator normal”.

2. 3.2.3.5 Thermal Model

Update to reflect s/c procurement.

3. Thermal Sensors

Does LAT have any requirements regarding the conditioning of temperature sensors. Identify which are included in data housekeeping stream.

IV. Electrical, EMC

1. Action items per SLAC visit for electrical /EMC

3.2.4.1 ; 3.2.4.9 (update to reflect EMI Requirements document)

V. Power

3.2.4.4

VI. C&DH

1. 3.2.5

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